CIA/RR GB 64-15 May 1964

CLIMATIC DATA FOR FOUR SOVIET BIOLOGICAL WARPARE SITES

In this report data on temperature, precipitation, and winds are presented in tabular form for four probable biological-warfare sites in the USSR: Ashkhabad, Lisiy Island, Otar, and Semipalatinak. Data for another probable BW site, Ostrov Vozrozhdeniya, are contained in CIA/RR GP 62-57:L, dated Merch 1962.

The climatic data are from and apparation and appar

GROUP 1
Excluded from automatic downgrading and declassification

SECRET

I. Ashkhebad (37057'N-58025'E)

Table 1

and the second s	The last of the la			Fahrenbeit
	Average	Average Daily Minimum	Absolute Maximus	Absolute Minimum
January	33.1	27.1	77.0	-9.4
February	38.8	31.3	82.4	-14.8
March	48.9	59.9	96.8	6,8
April	61.3	49.6	98,6	24.8
May	73.8	59.0	109.4	39.2
June	82.2	69.1	109.4	46.4
July	86.7	73.8	118.4	55.4
August	83.8	69.1	114.8	51.8
September	73.8	58.8	107.6	37.4
October	59.9	48.2	100.4	23.0
November	47.5	36.1	93.2	3.2
December	38.3	30.9	80.6	-9.4

Absolute minimum temperature: -14.8

Absolute maximum temperature: 118.4

Average daily temperature exceeds:

32.0	44.70		(365 days)	İ
41.0	-	21 February to 8 December	(290 days)	ĺ
50.0	day yes.	18 March to 10 November	(237 čaya)	
59.0	-		(192 days)	ľ
68,0	-	29 April to 2 October	(156 days)	į
77.0	****	23 May to 10 September	(110 days)	
86.0	-	4 July to 8 August	(35 days)	١

Table 2 Precipitation

	Average (Inches)	Maximum (Inches)	Minimus (Inches)	hesber of Days With Thunderstorm
	0.0	2.0	0.1	0
famery	0.9	2.4	0.1	0.4
ebruary	1.5	4.9	0.1	1.0
terch	1.7		0	4.0
pril	1.5	5.0 2.8	0.1	6.0
May	1.0		0	4.0
Tune	0.4	2.0	o	2.0
July	0.2	1.5	ŏ	1.0
August	0.1	1,1	ő	0.6
September	0.1	0.5		0.9
October	0.4	2.1	0	o o
November	0.7	2.8	0	ŏ
December	0.6	1.9	O	v

Average enmal precipitation: 8.9 inches

Meximum daily precipitation: 2.2 inches

Average number of days per year with snow cover: 18

Average date of first snow cover: 17 December

Average date of disappearance of snow cover: 17 February

Average maximum depth of enow cover (based on 10-day period of greatest depth): 1.6 inches

Table 3
Direction, Frequency, and Velocity of Wind

			July
Prequency	Volocity	Frequency (Percent)	Velocity (Miles per Hour)
	4.3	39	6.7
	5. 4	7	8.3
	6.3	11	7.8
	4.9	9	4.9
	3.6	7	1.8
•	3.6	5	3.h
	6.5	7	8.3
		15	8.1
	Percent (Percent) 19 10 30 22 5 2	(Percent) (Miles per Hour) 19 4.3 10 5.4 30 6.3 22 4.9 5 3.6 2 3.6 3 6.5	Prequency (Percent) Velocity (Percent) Prequency (Percent) 19 4.3 39 10 5.4 7 30 6.3 11 22 4.9 9 5 3.6 7 2 3.6 5 3 6.5 7

Table 4

					-		Mlge	yer F	age
		1	TOP	<u>Pt</u>	rect10	n <u>E</u>	<u>av</u>	T.	孤
January Februery March April May June July August September October Hovember	3.8 4.9 5.4 5.4 5.4 5.1 4.3 3.8 5.8	4.5 6.0 5.1 6.7 6.8 6.7 6.8 5.4 5.4	5.4 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.4 9.4 9.4	6.3 6.7 6.9 8.1 9.2 8.1 8.4 6.5 6.0	4.9 5.16 5.5 6.7 6.9 5.16 9.16 9.16 9.16 9.16 9.16 9.16 9.16 9	3.6 3.6 5.5 2.9 2.8 2.2 2.7 2.5	5.6 5.5 4.7 5.4 9.5 1.7 5.1 4.7 5.1 5.1 7.5 6.5	6.5 8.5 6.5 7.8 8.3 9.8 9.8 5.2 6.7	7.2 8.6 9.0 8.3 7.8 8.1 7.8 8.7 6.5
Annual.	4.7	6.0	6.5	7.6	5.4	2.9	4.3	7.2	8,1

Percent of observations that were calma: January -- 28; July -- 13

II. Listy Island a/ (57035'05"N-34024'25"E)

Table 1

Temperature

	Degrees Fahrenheit
	Average Average
	14.9
anuary	15.8
ebruary	25.9
terch	38.1
Apr-11	52.2
May	58,6
June	63.3
July	59.2
August	50.0
September	58.8
October	28.0
Movember	18.7
December	

Absolute minimum temperature: *5k

Absolute maximum temperature: 93.2

Period when average daily temperature is less than 32: 4 Hovember to 4 April (149 days)

- 6 -

a. Climatic data are not evallable for histy faland; therefore, data for Vyshmiy Volochek (57035'N-34034'E), 5 miles to the east, have been substituted.

Table 2
Precipitation

	Inches
	Average
January	1.h
February	1.3
Merch	0.9
April	1.0
May	2.2
Jame	3.0
Juliy	3.3
August	3.1
September	2.4
October	2.0
November	1,2
December	1.4

Average annual precipitation: 23.2 inches

Average number of days per year with snow cover: 149

Average date of first snow cover: 27 October

Average date of disappearance of snow cover: 20 April

Average maximum depth of anow cover (based on 10-day period of greatest depth): 19.7 inches

Table 3
Direction, Frequency, and Velocity of Wind

J	uniary .		
Frequency (Percent)	Velocity (Miles per Hour)	Prequency (Percent)	Velocity (Miles per Hour)
7	6.6	10	5.8
ų.	6.5	10	5.1
5	5.4	7	5.4
20	7.8	15	6.0
22	7.8	11	6.5
17	6.6	17	6 .0
15	8.7	16	6.9
10	8.5	14	5.8
	Proquency (Percent) 7 4 5 20 22 17 15	(Percent) (Miles per Hour) 7 6.6 4 6.5 5 5.4 20 7.8 22 7.8 17 6.6 15 8.7	Frequency (Percent) Velocity (Percent) Frequency (Percent) 7 6.6 10 4 6.5 10 5 5.4 7 20 7.8 15 22 7.8 11 17 6.6 17 15 8.7 16

Percent of observations that were calms: Jennary -- 28; July -- 13

III. Otar (43032'H-75012'E)

Table 1 Temperature

14,4 18.7
18.7
*** E. ***
34.5 49.6
60. 6
71.1
74.8
72.9
61.0
46.6
33.3
19.9

Absolute minimum temperature: -38.2

Absolute maximum temperature: 109,4

Period when everage deally temperature is less than 32: 15 November to 11 March (116 days)

Table 2

Precipitation

Monthly precipitation data are not available.

Average ennual precipitation: 10,7 inches

Average number of days per year with snew cover: 90

Average date of first most cover: 17 Sevember

Average date of disappearance of snow cover: 25 March

Average meriam depth of snow cover (based on 10-day period of greatest depth): 5.5 inches

Table 5
Direction, Frequency, and Velocity of Wind

	J	nuary	July			
Mrection	Percent)	Velocity (Miles per Hour)	Frequency (Percent)	Velocity (Miles per Hour)		
I	8	3 .8	11	6.9		
RE	9	4.5	15	7.4		
	53	4.7	16	7.4		
50	â	3.1	7	5.8		
ន	2	2.7		4.7		
SV	6	9,0	16	9.4		
W	24	7.4	20	8.4		
W	10	5.4	11	6.9		

Percent of observations that were calms: January -- 55; July -- 24

IV. Semipalatinsk (50°28'N-80°13'E)

Table 1
Temperature

	Degrees Fahrenheit
	Average
January	3.0
February	5.9
March	16.0
April	30.8
May	57.0
June	69.6
July	71.8
August	67.8
September	55.8
October	40.6
November	21.0
December	7.7

Absolute minimum temperature: -56.2

Absolute maximum temperature: 107.6

Average daily temperature exceeds:

52 - 6 April to 28 October (205 days) 41 - 18 April to 13 October (178 days) 50 - 1 May to 27 September (149 days)

59 -- 19 May to 9 September (113 days

Table 2 Precipitation

	Average	de di do as	mon Daily (served in P	eriod of	Marina	Minimum	Monder of Days With
	(Inches)	1 Year	10 Years	20 Years	(Inches)	(Inches)	Tanderstorm
Jamery	.6	.2	-5	.6	2.0	A 4	
Pebruary	-5	.2	i.			0.1	Q
terch	.6	.2	• ⁴⁴	•5	1.3	Q	Q
hril		*	* Aş.	-5	2.2	0	0
	•6	.3	.0	• 7	1.8	0	0.3
May	.9	• 3	.8	.9	3.2	0	2.0
here	1.3	.5	1.1	1.4	3.6	0.1	
huly .	1.4	. 5	1,2	1.4		0.4	5.0
luguet.	.9	L	.8		4.7	Ů.	6.0
leptember	.á	● 117		•9	# · !	0	5.0
etober		• 5	.8	.9	2,1	0.1	0.7
The same of the sa	1.0	-3	.7	.8	2.5	0	0.1
lovember-	1.0	- 5	.9	1.1	5.0	0.1	0
lecember	.8	.2	•5	.5	2.0	0.1	ŏ

Average annual precipitation: 10.5 inches

Maximum daily precipitation: 1.5 inches

Average number of days per year with show cover: 147 days

Average date of first snow cover: 24 October

Average date of disappearance of snow cover: 8 April

Average maximum depth of smew cover (based on 10-day period of greatest depth): 11.8 inches

Farmer Harri

Table 5
Direction, Frequency, and Velocity of Wind

		MAXX	July		
Direction	(Percent)	Velocity (Miles per Hour)	(Percent)	Velocity (Miles per Hour)	
N	1.	5.1	50	7.8	
WE	lį	7.4	15	7.6	
E	38	7.8	14	6.0	
SK	16	9.8	l ₃	6.7	
8	9	10.7	3	6.5	
SW	16	11.0	8	10.7	
H	12	6.7	18	9.2	
W	Žį.	7.4	18	7.6	

Table 4
Wind Velocity

	Miles per Hour	
Andrew Control of the	kverege	
Taran taran t	9.2	
January February	8.5	
Merch	9.4	
April	9.0 8.3	
May	7.6	
June	6.9	
July	6,5	
August	7.2	
September	8.1	
October	9.9	
November	9.0	
December		
Annel	8.3	

Percent of observations that were calms: James - 7; July -- 1

Approved For Release 2001/04/27: CIA-RDP791040 94000 01100 1-6

litle of Re	STIFE	S	UR SOVIET BIOLOG	ICAL WARFARE (2017)	- May 1964 SECRET			
Report No.	CIA/RR	GB 64-15 PN 6	4.1726 В	Construit.	will the promption of promption of the section of t			
Requester	2) = 3 mm	ABCD/OSI	Camadalis (NS) (see the Co. Missingson by the Pri	nagamanja, serina - ran aart a aanta eriigida kallingustiinisti ka Danadiga dan Superiina dan dar ran Substitut	enter dellerier 196, lyr di'tt jijk i stellerik likelik lieteren en e			
Analyst/Br	anch	GG/S	Cappics	None				
25X1A								
Copy No.		ro		Date				
	Requester	****		14 Ma	ay 1964			
3	Ch/G	parement and amount of the first 1 - 2.3 - 20	i gari i miran kangan ngang giran, ini i ki ki amin di spami.	und in Amband (name) — Make der und und eine eine geborne einem redet der der eine eine eine eine der eine eine	(түүдүн) (т. 7 4) (т.д.) (ў. 1) 10 карына энныстейскі аналагыйда аналасы			
THE PROOF OF LAWFORD STREET, TANK TO SEE ! SHOW	graphene gettings in the district State (1927) (1920)	general programs organization (1978) by comme	and the second second second second second	Cartine Partition (1904) P. C. Sang Grander	a ann an Tuair Chae na Liù Liù meir abhainn an Gearl a shèire a' dhealais an			
4	GG/S	garlege agent to come a many a measurement	Security of the second of the	ر الله الله الله المعلقة الماد القور الله الله الله الله الله الله الله الل	and a second			
5	St/P/G	and the second s	NA ALL SECTION OF THE SECTION	er kar sama – gesksilden met Simaasse egestrollen de Simbolde (m.	i Zir Gray (1924 - 1911) artisa ya Mashay sansani yangankilika da sapakata a			
6	<u>dan dan Maria dan Jawa Barangan Barangan</u>	sage ville english en en en sammer et en ville grotten en e	mana reserva ir () i i i i i i i i i i i i i i i i i i	Salah sa	on your system, something settler deposit derivations			
7	D/GG			Specification of the control of the second areas.	en en maar van de ekste food en aandere en saar skriven stad beteken ekste en een een een een een een een een			
i, sa, antalo de materialemento, se a en estado sem inserior de la composição de la composi	iguerrenzzing, regionalir ni i altonoliko i opi don caolie obsilitektiv	ுழ்த் கேற்றிவிச்சுகிக்கது வார்க்காக கொட்டி விருப்பி பிறி	, in the Magnes of state of the College of the Coll	er and entry the second				
paggaga communica paganahaliko hasar M	LIBEL EXPERIENCES - NO. 11. LODGE 1	were the transfer where were		in the last control of the control o	and the second s			
groungsperinadad som advada kritis, k visible	ر در المرادي و المرا	and public assessed an energy (2000) and the standard and	The section of the se	e e propose en gran de 100 desenver 1000 per gran de s				
	ere. Ag und a restitute allen av de 150 et julija (ECA 1480)	CALMER CONTROL OF THE	المواقع والمعادي والمالية	سنك في وهورون موسيق متوريق متورق من جو بوريد مند	pungana di en ili sili ni independente i sel de la companione di entre della companione di entre della companione della			
	numerane versions and page overlapping one	and the second section of the section of t		والمستقل المستقل المست	e a complete escape a complete escape			
demonstration factors was some well-specially all societies and the	الله الله المنظمة الم	inggen inggategreen in the acceptance of the could be removed.	, emmgar (fr. e.,	gragio en l'Objetion società y <u>compressione dispossione</u> sono gi liposio possio disso	na, programme kaj ligaj prejamojaj projekti in innoministrata konstitution kilo kaj kilo kaj kaj kaj kaj kaj k			
					the second secon			
gazza indini ya kenza yenzhilifikumia imilini girini	प्यूच्याच्याच्याच्या — चन्नाचे ४०० वर्षाच्याच्याच्याच्याच्याच्याच्याच्याच्याच्य	in the group of the first material in the contract of the section of the first of the contract	in the same of the	The second secon				
en and reductions and in the account of the second of the	Bereit Million Million (1877) The Angel of Standard .	sau. Si ar i ii. e e e e e e e e e e e e e e e e e	and the second s	ing the second of the second s	College of the Colleg			
Particular superior thin being a ferritory of the second	ستهمي در درد درد درد . او از پر دو شخص به برود دور.	and more, watermers 🚁 and attribute after the of of of	e e e e mengang a grand grand general a company a grand g	and the contraction of the terminal contraction of	Line of the second of the seco			
and the second section of the second section of the second section of the second section of the second section	en responsable difference es es il 1848 (h. h. merceno est 18	graph productions for the color of the color	ang kang sampang pang mendingan diang ang dibinasa ang dis	et describitation (1988) de la granda de la g	and the second s			
the the state of t	ojen gangoringijoje , iga opini av pa otstave ositi	audos din laskau tuas noos rituopinoon noose liiken leeni e	men er gil i general i i general i i e en deneral i e en men	, aguirin in agus shou shet na pigas a se bhain. A' teach i staine	at traying the extra of the second of the second of the Managar			
i arawahiliwa walioni ya isto alifo ini walio	galagina weni lehili ha lakunta lakunta	u a sili yawakii walionininga makati ya hiinkin ita katakin ita kata mwa la s		Партинения для него поверхня и повер у выполе	nga pagangan - Ni sa i sansa a ni ni Banadi Afalikan Gangabaddika a milis a milis a milis a si 18 a si Qa			
	and the second s	and the second s		La pri la puer Xwarya la cristata				
mann Staddensteil jate a tiel i fer haar (f. s. 195. s								
S.A. (* Wiggering Court Copinion Special C	प्रदेशक प्रक्रिकेट विदेश करें हैं कि उस की उस की उस की उस की जा है। 	ى ئالىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىد		Exeluda	Shour 1 d from sulometic			

Celease 2001/04/27 : CIA-RDP79T01019A000200110001-6